




**ENZYMATIC PREPARATION OF POLYSACCHARIDES**

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Provided are in vitro processes for the production of polysaccharides such as hyaluronic acid, cellulose, polymannuronan, chitin, etc. These processes are carried out under reaction conditions that permit the recycling of nucleotide-phosphates required for the formation of sugar nucleotide precursors employed in the synthesis of these polysaccharides. Also provided are polysaccharides produced via these processes, and pharmaceutical and cosmetic compositions containing these polysaccharides.

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